

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-3 (cancelled).

Claim 4 (currently amended): An optical source, comprising:

an optical emitter;

an encapsulant covering the optical emitter; and

a diffractive element integrated into the encapsulant, wherein the encapsulant passes light from the optical emitter to the diffractive element, and ~~The optical source of claim 1~~ wherein the optical emitter is positioned at a conductive mounting site of a conductive heat sink and the optical source is a surface mount device.

Claims 5-7 (cancelled).

Claim 8 (original): An optical source, comprising:

an optical emitter providing an optical signal; and

a diffractive element integrated into an encapsulant covering the optical emitter, intercepting the provided optical signal and diffracting the optical signal to form a predesignated optical radiation pattern.

Claim 9 (original): The optical source of claim 8 wherein the optical emitter is an LED.

Claim 10 (original): The optical source of claim 8 wherein at least one of the optical emitter and the encapsulant includes a secondary emitter.

Claim 11 (original): The optical source of claim 8 wherein the diffractive element has one of a binary grating profile, a sawtooth grating profile, a sinusoidal grating profile, a multiple phase-level grating profile, and a binary subwavelength grating profile.

Claim 12 (original): The optical source of claim 8 wherein the encapsulant covering the optical emitter encases the optical emitter.

Claim 13 (original): The optical source of claim 9 wherein the optical emitter is positioned at a conductive mounting site of a conductive lead.

Claim 14 (original): The optical source of claim 11 wherein the optical emitter is positioned at a conductive mounting site of a conductive lead.

Claim 15 (original): The optical source of claim 9 wherein the optical emitter is positioned at a conductive mounting site of a conductive heat sink and the optical source is a surface mount device.

Claim 16 (original): The optical source of claim 11 wherein the optical emitter is positioned at a conductive mounting site of a conductive heat sink and the optical source is a surface mount device.

Claim 17 (original): A method, comprising:

- generating an optical signal;
- transmitting the optical signal through an encapsulant;
- diffracting the optical signal transmitted through the encapsulant to form a predesignated optical radiation pattern.

Claim 18 (original): The method of claim 17 wherein generating the optical signal is provided by an optical emitter.

Claim 19 (original): The method of claim 18 wherein diffracting the optical signal transmitted through the encapsulant is provided by a diffractive element integral to the encapsulant.

Claim 20 (original): The method of claim 19 wherein the diffractive element has one of a binary grating profile, a sawtooth grating profile, a sinusoidal grating profile, a multiple phase-level grating profile, and a binary subwavelength grating profile.